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(71) Applicant (*for all designated States except US*): **MID-WEST RESEARCH INSTITUTE [US/US]; 425 Volker Boulevard, Kansas City, MO 64110 (US).**

(72) Inventors; and
(75) Inventors/Applicants (*for US only*): **KUTSCHER,**

Charles, F. [US/US]; 13523 West 21st. Avenue, Golden, CO 80401 (US). KOZUBAL, Eric, Joseph [US/US]; 817 East Moorhead Circle, Apt. D, Boulder, CO 80305 (US).

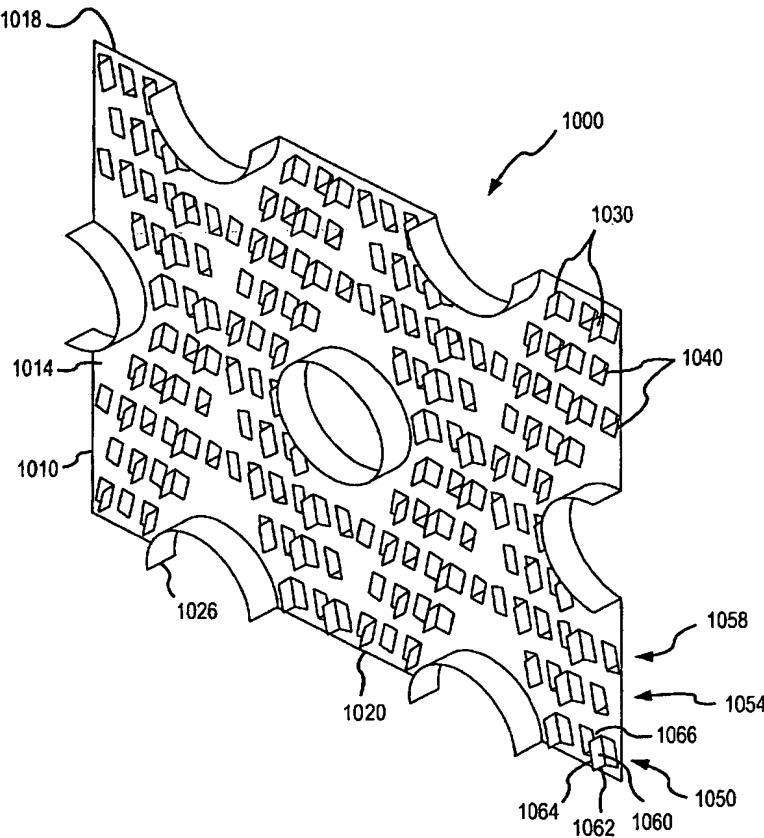
(74) Agents: **WHITE, Paul, J. et al.; National Renewable Energy Laboratory, 1617 Cole Boulevard, Golden, CO 80401 (US).**

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(54) Title: TABBED TRANSFER FINS FOR AIR-COOLED HEAT EXCHANGER



(57) Abstract: Heat transfer fins (110), and heat exchangers (100) incorporating such fins (110), enhancing heat transfer with acceptable pressure drop increase. The fins (110) include tabs or secondary fins bent upward and downward from the fin body at a selected bend angle. All or a majority of the tabs are aligned with a simple flow path or with local flow paths for cooling air adjacent the fins (110) to minimize turbulence and pressure drop. The tabs are planar and generally aligned parallel to the simple flow path or local flow paths and are arranged so as to serve as a plurality of sites for starting new boundary layers by offsetting the tabs such that downstream tabs are not shadowed by upstream tabs. The tabs have a height sufficiently large to extend the tabs out into boundary layers on the fin (110). The tabs provide more uniform flow over fins (110) and shrink wake size behind tubes (120).

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